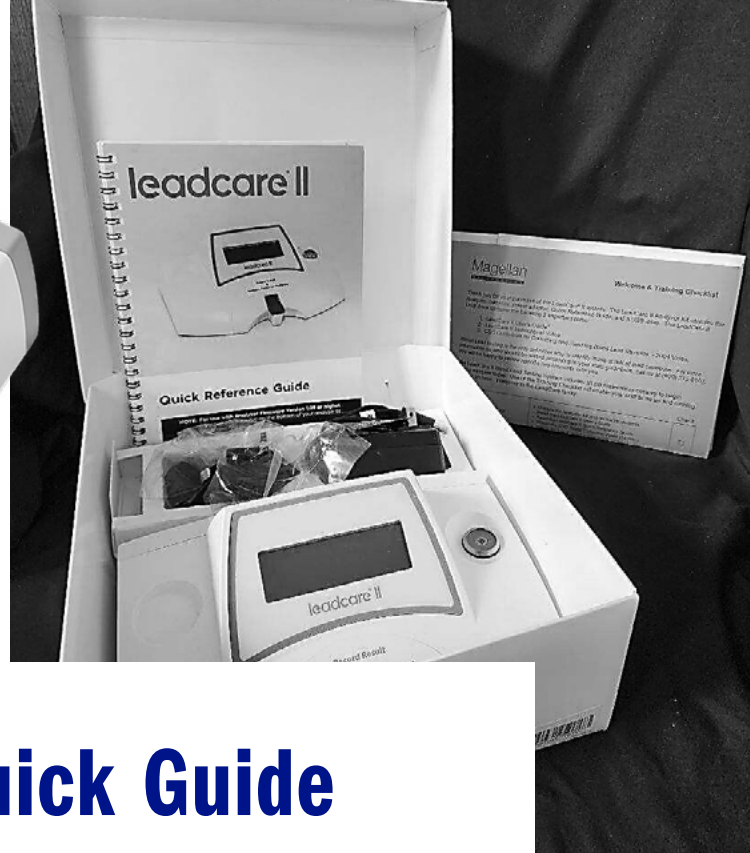


LEAD POISONING



LeadCare® II Quick Guide

Using LeadCare® II Analyzers

Supplies Needed for Testing

*Ensure all products are lead free

- LeadCare® II Test Kit
- Sterile lancet
- Gauze pads
- Bio-hazard container
- Disposable gloves
- Band-aids
- Absorbent cover for supplies to be placed on
- Soap and water (to clean collection site)

Calibrating

Calibrate your analyzer to the lot number in use per manufacturer instructions.

Calibrate with key and button

- The first time you use the analyzer
- Each time you use a new test kit
- When the analyzer displays a recalibration message

Collecting Capillary Specimens for Lead

Personal, Patient, and Area Prep

1. Designate a clean work area dedicated to blood lead testing.
2. Handwashing is required for both the patient and person administering the test. Alcohol swabs do not remove lead.
3. If a sink is not available, a soap and water solution dispensed from a goose-neck squirt bottle may be used to thoroughly rinse designated finger.
4. Once hands are washed, put on disposable gloves before collecting a sample.
5. If collecting samples for multiple tests, always collect the lead test sample first.

Testing

1. Scrub area to be punctured with soap and water. If water is not available, thoroughly rinse designated finger with soap and water solution dispensed from a goose-neck squirt bottle. (Note: Alcohol swabs do not remove lead.)
2. Clean area to be punctured with the alcohol pad.
3. Using a lancet, puncture the finger pad to the side of the center.
4. Allow the first drop of blood to fall onto the gauze pad. Avoid wiping the blood away to avoid contamination.

Continue on next page.

Testing Continued

5. Hold the heparinized capillary tube almost horizontally, with the green band on top, and fill to the 50 μL black line. Filling stops when the blood reaches the black line. Be sure to avoid touching the skin with the tube when collecting the sample.
6. Remove the excess blood from the outside of the tube with a clean gauze pad. Use a downward motion to wipe excess blood from the capillary tube.
7. Dispense blood sample into treatment reagent vial. Invert the treatment reagent/blood mixture 8-10 times to mix the blood.
8. Insert a sensor into the LeadCare® II Analyzer until it beeps. Use transfer dropper to deposit sample onto the "X". The test will automatically begin. After 3 minutes, the analyzer will beep again to indicate the test is done. Record the result on the display window.
9. "Low" in the display window indicates a result less than 3.3 $\mu\text{g}/\text{dL}$.
10. Each case of lead poisoning must be reported to the Idaho Department of Health and Welfare or the local public health district within 3 days of identification of the case when determined by symptoms or a blood lead of five micrograms or more per deciliter (5.0 $\mu\text{g}/\text{dL}$) of blood in children under eighteen (18) years of age.

Disposal

Refer to your local regulations and facilities guidelines for proper waste disposal.

Confirm with Venous Test

Refer to the [Idaho Lead Risk Assessment and Blood Lead Testing Recommendations](#) for confirmatory and follow-up blood lead testing tables for children identified with lead in their blood.



Troubleshooting for LeadCare® II Analyzers

Common issues, retesting, and information on venous confirmations

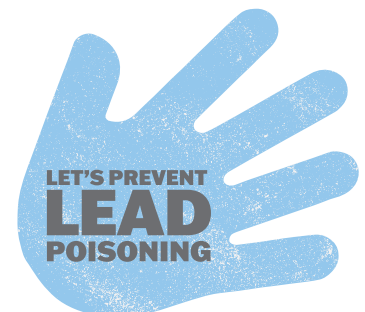
Child less than 1 year old	Do a heel puncture. If difficulty arises with obtaining a specimen from the heel, use the large toe.
Unexpected results	<ul style="list-style-type: none">• Please refer to the Troubleshooting section of your LeadCare® II User's Guide.• Ensure quality controls have been run and the analyzer has been calibrated to the lead test kit lot number in use.• Elevated results may result from sample contaminated with lead from skin's surface. Proper handwashing with soap and water is critical first step during the collection procedure.• Result of 45 mcg/dL or greater (including HIGH result on analyzer).• Wash hands again with soap and water.• Re-test with a new, second specimen.• Specimen may have had clotted blood.• The analyzer has been transported and has not warmed up to room temperature.• Mix blood with treatment reagent immediately, and run test within 48 hours, or refrigerate for up to 7 days.
Any result equal to or exceeding 3.5 mcg/dL or uncertainty in validity of the test	<ul style="list-style-type: none">• Notify the ordering provider of the results.• Refer patient for confirmatory venous testing. All elevated capillary blood lead levels must be confirmed with a venous blood lead level.
If receiving a continuous error message	Contact LeadCare® II Analyzer Product Support at 1-800-275-0102.
Things to Remember	<ul style="list-style-type: none">• Run controls according to manufacturer instructions.• The accuracy of the test depends on handwashing prior to sample collection and filling the capillary tube properly.



For additional information contact:

Idaho Department of Health and Welfare
Environmental Health Program
Childhood Lead Poisoning Prevention Program
email: eh@dhw.idaho.gov
phone: 800-455-8647

Website: healthandwelfare.idaho.gov/lead-poisoning



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